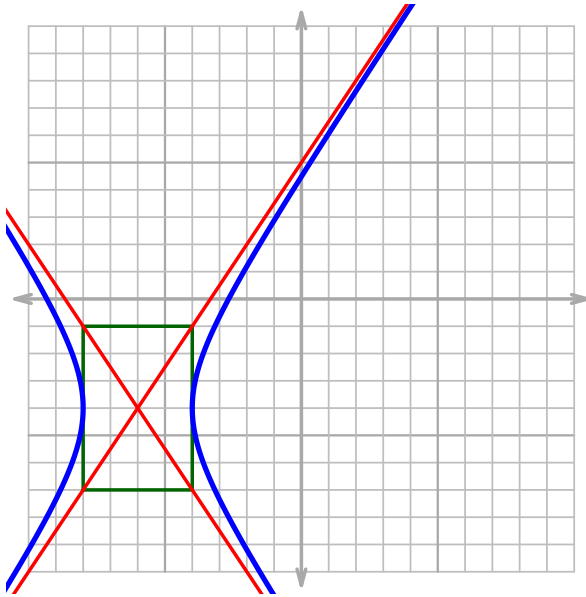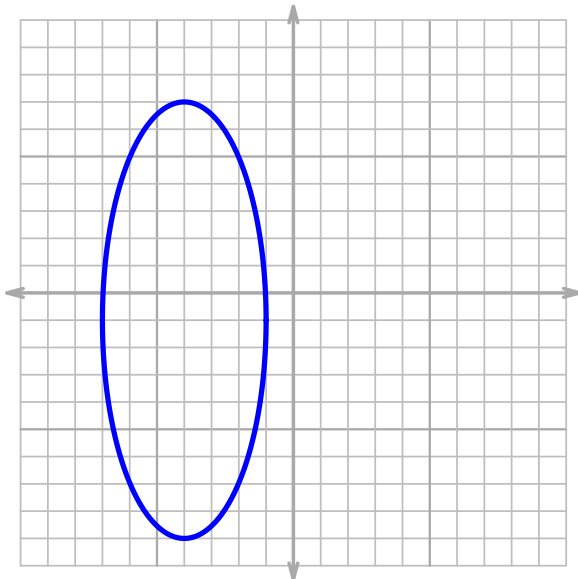**Name:**

Question 1

Please write the equation of the conic section graphed below. You can assume all vertices and co-vertices are on integer gridpoints.

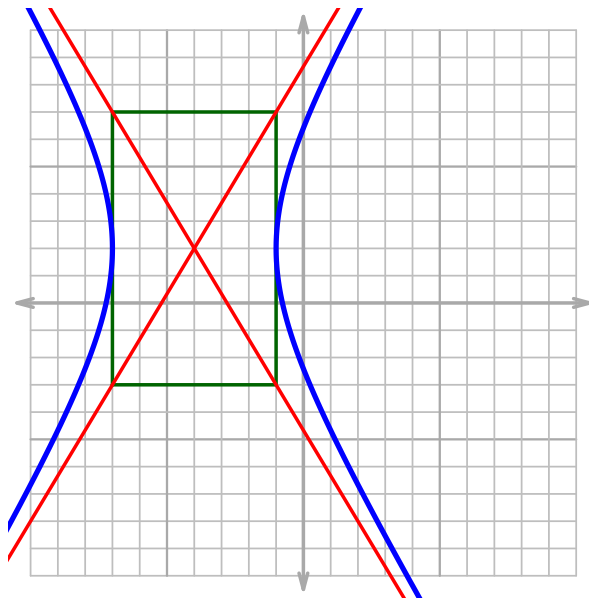$$\frac{(x+6)^2}{4} - \frac{(y+4)^2}{9} = 1$$

Question 2

Please write the equation of the conic section graphed below. You can assume all vertices and co-vertices are on integer gridpoints.

$$\frac{(x+4)^2}{9} + \frac{(y+1)^2}{64} = 1$$

Name: _____

Question 3

Graph the conic section represented by the equation. For a hyperbola, please include the central rectangle and the asymptotes.

$$\frac{(x+4)^2}{9} - \frac{(y-2)^2}{25} = 1$$
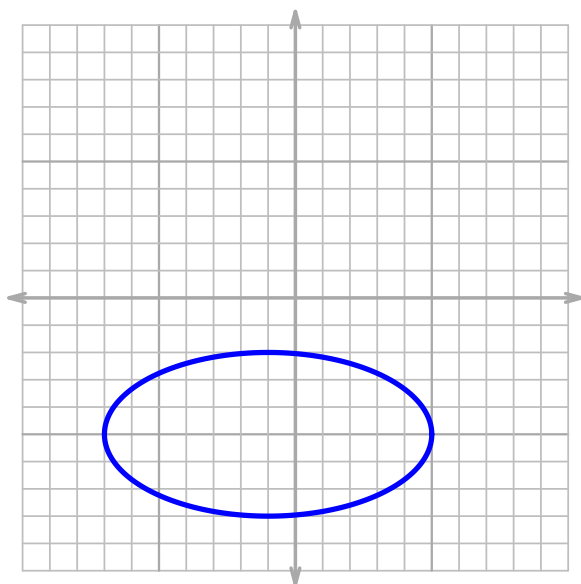
Question 4

Graph the conic section represented by the equation. For a hyperbola, please include the central rectangle and the asymptotes.

$$\frac{(x+1)^2}{36} + \frac{(y+5)^2}{9} = 1$$